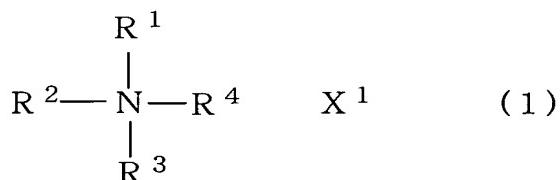


ABSTRACT OF THE DISCLOSURE

An electrolytic solution for use in nonaqueous
electrolytic lithium secondary cells which contains a room
5 temperature molten salt, i.e., an aliphatic quaternary
ammonium salt of the formula (1), an organic solvent
and a lithium salt of the formula (2), the electrolytic
solution being characterized in that the organic solvent
contains vinylene carbonate in an amount of 1 to 5 wt. %
10 based on the electrolytic solution, and a lithium secondary
cell using the electrolytic solution



15 wherein R¹ to R³ are each a chain hydrocarbon having 1 to 4
carbon atoms, R⁴ is methoxymethyl, ethoxymethyl, propoxymethyl
or isopropoxymethyl, and X¹ and X² are each a fluorine-
containing anion.